

-4- (Twice amended)

1 A vaccine for active immunization of an equid
2 against a *Sarcocystis neurona* infection comprising a
3 recombinant polypeptide comprising one or more epitopes
4 from *Sarcocystis neurona* antigens selected from the
5 group consisting of a 16 (± 4) kDa and a 30 (± 4) kDa
6 antigen.

-23- (Twice amended)

1 A method for producing a fusion polypeptide *in*
2 *vitro* comprising:

3 (a) providing a microorganism in a culture
4 containing a DNA encoding the fusion polypeptide which
5 comprises one or more epitopes from *Sarcocystis neurona*
6 antigens selected from the group consisting of a 16 (± 4)
7 kDa and a 30 (± 4) kDa antigen linked to a polypeptide
8 that facilitates isolation of the fusion polypeptide;

9 (b) culturing the microorganism in a culture
10 to produce the fusion polypeptide; and

11 (c) isolating the fusion polypeptide from the
12 *in vitro* culture.